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Search Results - Record(s) 1 through 11 of 11 returned.

1. Document ID: US 20020167317 A1

Relevance Rank: 99

L2: Entry 4 of 11

File: PGPB

Nov 14, 2002

PGPUB-DOCUMENT-NUMBER: 20020167317

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020167317 A1

TITLE: Driven equilibrium and fast-spin echo scanning

PUBLICATION-DATE: November 14, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Shenoy, Rajendra K.

Damadian, Jevan

Dixhills

East Northport

NY NY US US

US-CL-CURRENT: 324/307; 324/300

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draws Description

2. Document ID: US 20020177770 A1 Relevance Rank: 82

L2: Entry 3 of 11

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177770

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177770 A1

TITLE: Assessing the condition of a joint and assessing cartilage loss

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Lang, Philipp

Lexington

MA

US

Steines, Daniel

Palo Alto

CA

US

US-CL-CURRENT: 600/410

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Desc Image

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3. Document ID: US 20020087274 A1 Relevance Rank: 82

L2: Entry 6 of 11

File: PGPB

Jul 4, 2002

Oct 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020087274

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020087274 A1

TITLE: Assessing the condition of a joint and preventing damage

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

San Francisco Alexander, Eugene J. CA US Andriacchi, Thomas P. Los Altos Hills CA US Lang, Philipp San Francisco CA US Napel, Sandy A. Menlo Park CA US

US-CL-CURRENT: 702/19; 378/3



File: PGPB

4. Document ID: US 20020147392 A1 Relevance Rank: 80

PGPUB-DOCUMENT-NUMBER: 20020147392

L2: Entry 5 of 11

PGPUB-FILING-TYPE: new DOCUMENT-IDENTIFIER: US 20020147392 A1

TITLE: Technique for manipulating medical images

PUBLICATION-DATE: October 10, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Steines, Daniel Palo Alto CA US Lang, Philipp Lexington MA US

US-CL-CURRENT: 600/407

Full	Title	Citation	Front	Review		Reference	Attachments	KWC
Draw	Desc	lmage						
200000					 	_		

5. Document ID: US 5825185 A Relevance Rank: 71

L2: Entry 8 of 11 File: USPT Oct 20, 1998

US-PAT-NO: 5825185

DOCUMENT-IDENTIFIER: US 5825185 A



TITLE: Method for magnetic resonance spin echo scan calibration and reconstruction

DATE-ISSUED: October 20, 1998

INVENTOR-INFORMATION:

CITY STATE ZIP CODE NAME COUNTRY

Liu; Haiying Minneapolis MN Bearden; Francis H. Twinsburg OH DeMeester; Gordon D. Wickliffe OH

ASSIGNEE-INFORMATION:

CITY STATE ZIP CODE COUNTRY TYPE CODE NAME

Highland Heights 02 Picker International, Inc.

APPL-NO: 08/ 757153

DATE FILED: November 27, 1996

INT-CL: [06] G01 V 3/00

US-CL-ISSUED: 324/309; 324/307 US-CL-CURRENT: 324/309; 324/307

FIELD-OF-SEARCH: 324/309, 324/307, 324/306, 324/314, 324/300, 324/312

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4851779	July 1989	DeMeester et al.	324/309
5138259	August 1992	Schmitt et al.	324/309
5581184	December 1996	Heid	324/309
5621321	April 1997	Liu et al.	324/307
5742163	April 1998	Liu et al.	324/309

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
0296834A3	December 1988	EP	
0296834A2	December 1988	EP .	
0490528A1	June 1992	EP	
0772057A1	July 1997	EP	
4005675A1	August 1991	DE	
4445782C1	July 1996	DE	

OTHER PUBLICATIONS

Hennig, J., et al. "RARE Imaging: A Fast Imaging Method for Clinical MR," Mag. Res. Med., 3, pp. 823-833 (1986).

Mulkern, R.V., et al., "Contrast Manipulation and Artifact Assessment of 2D and 3D Rare Sequences," Mag. Res. Imaging, 8, pp. 557-566 (1990).

Zhou, et al., "On Phase Artifacts of High-Field Fast Spin-Echo Images," SMRI Abstract

Book, p. 1248 (Aug. 1993).

Zhou, et al., "Reduction of Ringing and Blurring Artifacts in Fast Spin-Echo Images," SMRI Abstract Book, p. 935 (Aug. 1993).

Zhou, et al., "Reduction of Ringing and Blurring Artifacts in Fast Spin-Echo Images,"

J. Mag. Res. Imaging, 3, pp. 803-807 (Sep./Oct. 1993).
Wan, et al., "Reduction of Phase Error Ghosting Artifacts in Thin Slice Fast Spin-Echo



'Imaging," Mag. Res. Med., 34, pp. 632-638 (1995).

Press, et al. "Numerical Recipes in Fortran: The Art of Scientific Computing, "2nd. ed. (1992).

XP002057350 2D Phase Correction For Multiple Shot EPI, Haiying Liu, et al. Proceedings

International Society <u>Magnetic Resonance</u> Medicine, vol. 3.

XP002057349 Cross-Correlation in MRI: Image Req., P.V. Connaughton, et al. Book of

Abstracts vol. 2, Society Magnetic Resonance Medicine and Biology.

ART-UNIT: 287

PRIMARY-EXAMINER: Arana; Louis M.

ABSTRACT:

A transmitter (24) and gradient amplifiers (20) transmit radio frequency excitation and other pulses to induce magnetic resonance in selected magnetic dipoles and cause the magnetic resonance to be focused into a series of echoes (66) at each of a plurality of preselected echo positions following each excitation. A receiver (38) converts each echo into a data line. Calibration data lines having a close to zero phase-encoding are collected and used to generate correction parameters (102) for each of the echo positions. These parameters include relative echo center positions (96) and unitary complex correction vectors (106). The calibration data lines for each of the preselected positions are one-dimensionally Fourier transformed (82) and multiplied (90) by the same complex conjugate reference echo (80). These data lines are then inverse Fourier transformed (92) to generate an auxiliary data array (94). A relative echo center position is computed (96) which represents a fractional shift of the true center relative to the reference echo. A complex sum is computed (104) from the relative echo center position and normalized (106) to generate a unitary correction vector. The phase-correction parameters are used to phase-correct (116) imaging data lines. The phase-corrected imaging data lines are sorted (122) to build an image plane which is one-dimensionally Fourier transformed (128) in the phase-encoding direction to produce a final corrected image (130) for display on a monitor (134).

18 Claims, 7 Drawing figures

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw Desc Image

KWIC

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6. Document ID: US 20030015208 A1

Relevance Rank: 63

L2: Entry 2 of 11

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030015208

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030015208 A1

TITLE: Methods to diagnose treat and prevent bone loss

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Lang, Philipp Lexington MA US Arnaud, Claude Mill Valley CA US

US-CL-CURRENT: 600/562

Full Title Citation Front Review Classification Date Reference Sequences Attachments
Draw, Desc Image

KAMIC



7. Document ID: US 5245282 A Relevance Rank: 52

L2: Entry 11 of 11

File: USPT

VA

Sep 14, 1993

US-PAT-NO: 5245282

DOCUMENT-IDENTIFIER: US 5245282 A

TITLE: Three-dimensional magnetic resonance imaging

DATE-ISSUED: September 14, 1993

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Mugler, III; John P. Brookeman; James R.

Charlottesville Charlottesville VA

ASSIGNEE-INFORMATION:

ME CITY

STATE ZIP CODE COUNTRY TYPE CODE

University of Virginia Alumni

Patents Foundation

Charlottesville VA

02

APPL-NO: 07/ 723230

DATE FILED: June 28, 1991

INT-CL: [05] G01R 33/20

US-CL-ISSUED: 324/309 US-CL-CURRENT: 324/309

FIELD-OF-SEARCH: 324/300, 324/307, 324/309, 324/312, 324/318, 324/322, 128/653.2

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4797616	January 1989	Matsui et al.	324/309
4801884	January 1989	Oppelt et al.	324/309
4818942	April 1989	Rzedzian	324/312
4830012	May 1989	Riederer	128/653
4833407	May 1989	Holland et al.	324/309
4836209	June 1989	Nishimura	128/653
4843321	June 1989	Sotak	324/309
4856528	August 1989	Yang et al.	128/653
4895157	January 1990	Nambu	128/653
4901019	February 1990	Wedeen	324/309
4940941	July 1990	Rzedzian	324/312
4982161	January 1991	Twieg	324/309
4984573	January 1991	Leunbach	128/653
4986272	January 1991	Riederer et al.	128/653
4991586	February 1991	Mueller et al.	128/653
4993075	February 1991	Sekihara et al.	382/6K
5072182	December 1991	Derby et al.	324/309
5084675	January 1992	Reinfelder et al.	324/309
5087880	February 1992	Bruder et al.	324/309
5105152	April 1992	Pauly	324/309
5122747	June 1992	Reiderer et al.	324/309

ART-UNIT: 263

PRIMARY-EXAMINER: Tokar; Michael J.

ABSTRACT:

A new three-dimensional (3D) MR imaging pulse sequence can produce over 100 high-resolution, high-contrast images in as little as 6 minutes of imaging time. Without additional imaging time, this same image data can be post-processed to yield high-resolution, high-contrast images in any arbitrary orientation. Thus, this new pulse sequence technique provides detailed yet comprehensive coverage. The method of this invention relates to a preparation-acquisition-recovery sequence cycle. The first step is magnetization preparation (MP) period. The MP period can emply a series of RF pulses, gradient field pulses, and/or time delays to encode the desired contrast properties in the form of longitudinal magnetization. A data acquisition period includes at least two repetitions of a gradient echo sequence to acquire data for a fraction of k-space. A magnetization recovery period is provided which allows T1 and T2 relaxation before the start of the next sequence cycle. The MP, data acquisition and magnetization recovery steps are repeated until a predetermined k-space volume is sampled.

44 Claims, 6 Drawing figures

Full Title Citation Front Review Classification Date Reference Sequences Attachments KWC Draw, Desc Image

8. Document ID: US 5742163 A Relevance Rank: 51

L2: Entry 9 of 11 File: USPT Apr 21, 1998

US-PAT-NO: 5742163



'DOCUMENT-IDENTIFIER: US 5742163 A

TITLE: Magnetic resonance scan calibration and reconstruction technique for multi-shot,

multi-echo imaging

DATE-ISSUED: April 21, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Liu; Haiying Euclid OH
DeMeester; Gordon D. Wickliffe OH
McNally; James M. Chagrin Falls OH

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Picker International, Inc. Highland Heights OH 02

APPL-NO: 08/ 638643

DATE FILED: April 26, 1996

INT-CL: [06] G01 V 3/00

US-CL-ISSUED: 324/309; 324/307 US-CL-CURRENT: 324/309; 324/307

FIELD-OF-SEARCH: 324/309, 324/307, 324/306, 324/314, 324/312, 324/300, 128/653.2

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
5151656	September 1992	Maier et al.	324/309
5531223	July 1996	Hatanaka	324/309
<u>5557204</u>	September 1996	Lenz	324/309
5581184	December 1996	Heid	324/309
5652514	July 1997	Zhang et al.	324/309

FOREIGN PATENT DOCUMENTS

 FOREIGN-PAT-NO
 PUBN-DATE
 COUNTRY
 US-CL

 0 250 050
 December 1987
 EP

 0 280 310
 August 1988
 EP

OTHER PUBLICATIONS

"Cartesian Echo Planar Hybrid Scanning with Two to Eight Echoes", Kashmar, et al. IEEE Trans on Medical Imaging, V. 10, N. 1, Mar. 1991.

"Interleaved Echo Planar Imaging on a Standard MRI System", Butts, et al. MRM 31:677-72

"Ultrafast Interleaved Gradient-Echo-Planar Imaging on a Standard Scanner", McKinnon, MRM 30:609-616 (1993).

ART-UNIT: 225

PRIMARY-EXAMINER: Arana; Louis M.

ABSTRACT:

·A sequence control (40) causes a transmitter (24) and gradient amplifiers (20) to transmit radio frequency excitation and other pulses to induce magnetic resonance in selected dipoles and cause the magnetic resonance to be focused into a series of echoes in each of a plurality of data collection intervals following each excitation. A receiver (38) converts each echo into a data line. Calibration data lines having a close to zero phase-encoding are collected during each of the data collection intervals. The calibration data lines in each data collection interval are zero-filled (86) to generate a complete data set and Fourier transformed (88) into a series of low resolution complex images (90.sub.1, 90.sub.2, . . . 90.sub.n), each corresponding to one of the data collection intervals. The low resolution images are normalized (92) and their complex conjugates taken (94). Imaging data lines are sorted by a data collection interval and zero-filled (104) to create full data sets. The full data set corresponding to each data sampling interval is Fourier transformed into partial image representations (106.sub.1, 106.sub.2, 106.sub.n). Each partial image is multiplied (108) by a complex conjugate of the normalized phase correction map (96) to create corrected partial images which are summed (112) to generate a composite image (114). The composite images are density corrected (120).

20 Claims, 11 Drawing figures

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draws Desc Image

KWIC

9. Document ID: US 6219571 B1

Relevance Rank: 50

L2: Entry 7 of 11

File: USPT

Apr 17, 2001

US-PAT-NO: 6219571

DOCUMENT-IDENTIFIER: US 6219571 B1

TITLE: Magnetic resonance imaging using driven equilibrium fourier transform

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hargreaves; Brian A. Stanford CA

Nishimura; Dwight G. Palo Alto CA

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Board of Trustees of the Leland Stanford
Junior University

Palo Alto CA

02

APPL-NO: 09/ 280223

DATE FILED: March 29, 1999

PARENT-CASE:

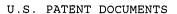
This application is a continuation of and claims the benefit of U.S. Provisional Application No. 60/080,904 filed Apr. 6, 1998, the disclosure of which is incorporated by reference.

INT-CL: [07] A61 B 5/055

US-CL-ISSUED: 600/410; 324/307, 324/309 US-CL-CURRENT: 600/410; 324/307, 324/309

FIELD-OF-SEARCH: 600/410, 324/307, 324/309

PRIOR-ART-DISCLOSED:



PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4165479	August 1979	Mansfield	324/309
4509015	April 1985	Ordidge et al.	324/309
4532474	July 1985	Edelstein	324/309
4665365	May 1987	Glover et al.	324/309
4766381	August 1988	Conturo et al.	324/309
4893081	January 1990	Zur	324/309
5245282	September 1993	Mugler, III et al.	324/309
5303705	April 1994	Nenov	600/410

OTHER PUBLICATIONS

Shoup, R.R. et al., "The Driven Equilibrium Fourier Transform NMR Technique: An Experimental Study, Journal of Magnetic Resonance 8, 298-310 (1972). Iwaoka, Hideto et al., "A New Pulse Sequence for "Fast Recovery" Fast-Scan NMR Imaging, " IEEE Transactions on Medical Imaging, vol. MI-3, No. 1, pp. 41-46, Mar. 1984.

Van Uijen, C.M.J. et al., "<u>Driven-Equilibrium</u> Radiofrequency Pulses in NMR Imaging," Magnetic Resonance in Medicine I, 502-507 (1984).

Maki, J.H. et al., "SNR Improvement in NMR Microscopy Using DEFT," Journal of Magnetic

Resonance 80, 482-492 (1988).

Rubenstein, Joel D. et al., "Image Resolution and Signal-to-Noise Ratio Requirements for MR Imaging of Degenerative Cartilage," AJR:169, , pp. 1089-1096, Oct. 1997. Yao, Lawrence et al., "MR Imaging of Joints: Analytic Optimization of GRE Techniques of 1.5 T," AJR:158, pp 339-343 Feb. 1992.

Brittain, Jean H. et al., "Coronary Angiography with Magnetization-Prepared T.sub.2 Contrast, " MRM, 33:689-696 (1995).

Henkelman, R.Mark et al., "Anisotropy of NMR Properties of Tissues," MRM 32:592-601 (1994).

Recht, Michael P. et al., "MR Imaging of Articular Cartilage: Current Status and Future Directions, " AJR: 163-283-290 (1994).

Peterfy, Charles G., et al., "MR Imaging of the Arthritic Knee: Improved Discrimination of Cartilage, Synovium, and Effusion with Pulsed Saturation Transfer and Fat-suppressed T1-weighted Sequences, Radiology 191:413-419 (1994).

ART-UNIT: 377

PRIMARY-EXAMINER: Casler; Brian L.

ABSTRACT:

A new technique for imaging a material with a high T2/T1 ratio such as articular cartilage uses driven equilibrium Fourier transform (DEFT), a method of enhancing signal strength without waiting for full T1 recovery. Compared to other methods, DEFT imaging provides a good combination of bright cartilage and high contrast between cartilage and surrounding tissue. Both theoretical predictions and images show that DEFT is a valuable method for imaging articular cartilage when compared to spoiled gradient recalled acquisition in the steady-state (SPGR) or fast spin echo (FSE). T2-decay, T1 recovery, echo time, magnetization density, proton density, and equilibrium density per proton are related by a derived equation.

16 Claims, 22 Drawing figures

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw, D	esc Ir	nage							

KWIC



10. Document ID: US 5285158 A Relevance Rank: 50

L2: Entry 10 of 11

File: USPT

Feb 8, 1994

US-PAT-NO: 5285158

DOCUMENT-IDENTIFIER: US 5285158 A

TITLE: NMR angiography using fast pulse sequences with preparatory pulses

DATE-ISSUED: February 8, 1994

INVENTOR - INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Madison WI Mistretta; Charles A. Korosec; Frank R. Madison Weber; David M. Middleton WT Grist; Thomas M. Madison WI

ASSIGNEE-INFORMATION:

CITY STATE ZIP CODE COUNTRY TYPE CODE NAME

Wisconsin Alumni Research Foundation Madison WI 02

APPL-NO: 07/ 926658

DATE FILED: August 6, 1992

INT-CL: [05] G01R 33/70

US-CL-ISSUED: 324/309; 324/306, 128/653.3

US-CL-CURRENT: 324/309; 324/306, 600/413, 600/419

FIELD-OF-SEARCH: 324/306, 324/309, 324/307, 324/300, 128/653.3, 128/653.2

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4718424	January 1988	Nishimura	324/306
4800889	January 1989	Dumoulin	324/309
4870361	September 1989	In Den Kleef et al.	324/307
5031624	July 1991	Mistretta et al.	324/306
5101156	March 1992	Pelc	324/306
5115812	May 1992	Sano et al.	324/306

OTHER PUBLICATIONS

Magnetic Resonance Angiography, Nishimura, et al., IEEE TMI, MI-5, 140-151, 1986. Real-time Flow Measurements Using Echo-Planar Imaging, Guilfoyle, et al., Magn. Reson. Med., 18, 1-18, 1991.

Cancellation Excitation for Angiography, Pauly, et al., Fifth SMRM, 70-71, 1986.

Robust Velocity Selective Excitation, Pauly et al., 6th SMRM, 27, 1987.

Quantitative Single-shot flow Velocity Imaging with Stationary Signal Suppression using Flow-selective Pulses, Pope et al., 10th SMRM, 96, 1992.

Encoding Velocity Information In NMR Images By Phase Tagging, Lee, et al., 10th SMRM, 812, 1991.

Direct Acquisition Phase Contrast Angiography, J. N. Lee, 10th SMRM, 818, 1991. Flow Imaging By Stationary Spin Suppression, H. Lee, 10th SMRM, 1154, 1991.

Driven Equilibrium MR Angiography: A Study of Static Spin Suppression, Foster et al., 6th SMRM, 30, 1987.

10 of 12



GRASE Imaging: A Novel Fast MRI Technique, Oshio, et al., Magn. Reson. Med.

20(2):344-349, 1991.

ART-UNIT: 267

PRIMARY-EXAMINER: Tokar; Michael J.

ASSISTANT-EXAMINER: Mah; Raymond Y.

ABSTRACT:

An angiogram is produced using NMR fast pulse sequences in which the views are acquired in shots preceded by a preparatory pulse sequence. Each shot is acquired twice with differing preparatory pulse sequences and the resulting NMR data is subtracted to null the stationary tissues in the reconstructed image.

8 Claims, 6 Drawing figures



11. Document ID: US 20030030435 A1 Relevance Rank: 46

L2: Entry 1 of 11

File: PGPB

Feb 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030030435

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030030435 A1

TITLE: Method for coherent steady-state imaging of constant-velocity flowing fluids

PUBLICATION-DATE: February 13, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Venkatesan, RameshKarnatakaINJabbar, AmjadBangaloreINAhraham, TishaBangaloreIN

US-CL-CURRENT: 324/306; 324/307, 324/309

Full Title Citation Front Review Classification Date Reference Sequences Attachments

Draw Desc Image

Generate Collection

Print



Term	Documents
DRIVEN.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	1214608
DRIVENS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	6
EQUILIBRIUM.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	131743
EQUILIBRIUMS.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	270
EQUILIBRIA.DWPI,TDBD,EPAB,JPAB,USPT,PGPB.	3606
EQUILIBRIAS	0
(1 AND (DRIVEN ADJ EQUILIBRIUM)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	11
(L1 AND (DRIVEN ADJ EQUILIBRIUM)).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	11

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